

Atty.
Dkt. No.

M#

Client Ref.

276746

U3-0641-T9

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Applicant: Fukaya et al.

Appln. No.: New Application

Filing Date: February 1, 2001

Examiner: Unknown

Group Art Unit: Unknown

Date: February 1, 2001

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U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR					
	BR					
	CR					
	DR					
	ER					
	FR					
	GR					
	HR					
	IR					
	JR					
	KR					
	LR					
	MR					
	NR					

FOREIGN PATENT DOCUMENTS

	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
					Enclosed	No	Enclose	No
M	OR 5-126789	05/1993	Japan		x			x
n	PR 11-44668	02/1999	Japan		x			x
m	QR 11-72471	03/1999	Japan			x		x
n	RR 0899562A2	03/1999	Europe	Matsuo et al.				
	SR							
	TR							
	UR							
	VR							
	WR							
	XR							

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

	YR							
	ZR							
	AAR							
	BBR							
	CCR							
	DDR							

Examiner

Date Considered:

12-02

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Document Name:

Unexamined Japanese Patent Publication No. 11-44668

Publication Date: February 16, 1999

Title of the Invention:

Heater Equipped Oxygen Sensor



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[0009]

By employing the above-described structure wherein a heat generating portion is brought into contact with an oxygen sensing element at their lateral sides, generated heat of a heater is directly transferred from the heat generating portion of a heating element to the oxygen sensing element via a contact portion. Additionally, radiated heat in the vicinity of the contact portion can be effectively used for warming up the oxygen sensing element. Thus, it becomes possible to promptly warm up the oxygen sensing element. The activation time of the sensor can be shortened.